

BRCS080N03ZCQ

Rev.A Dec.-2023

BRCS080N03ZCQ

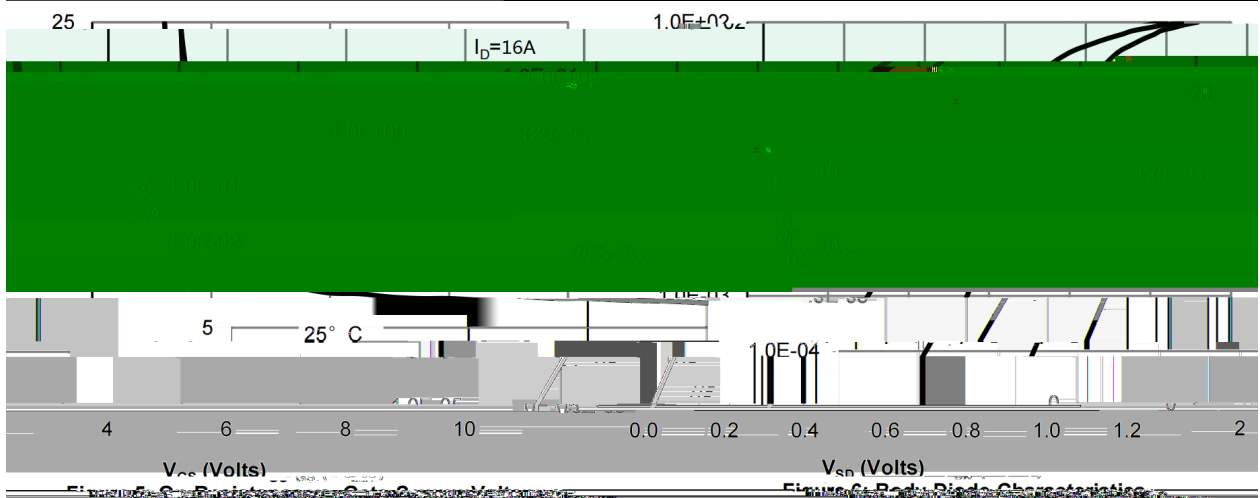
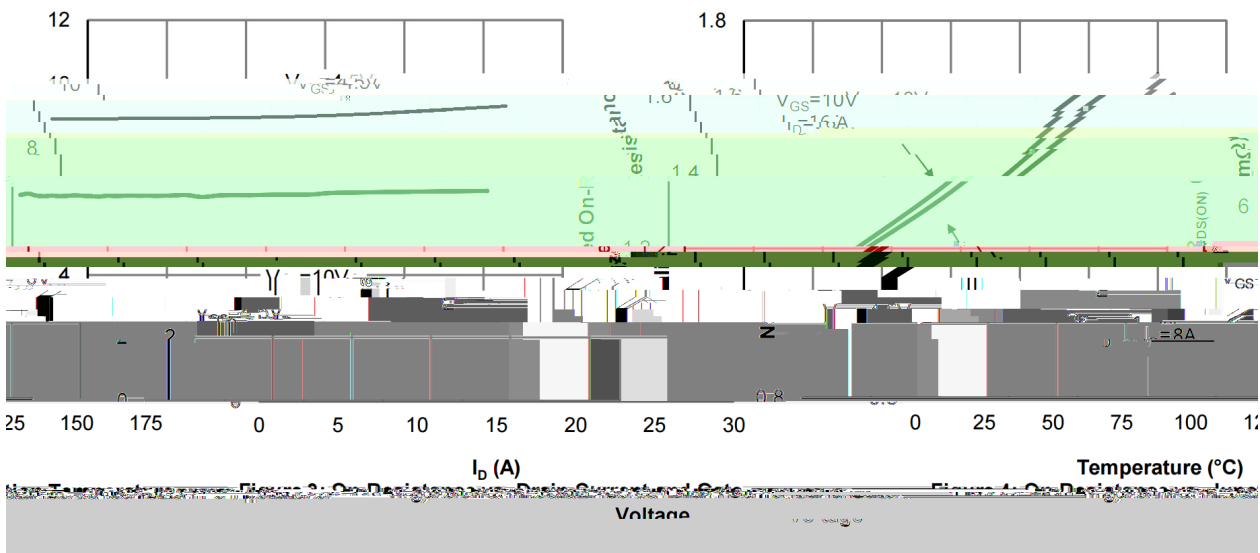
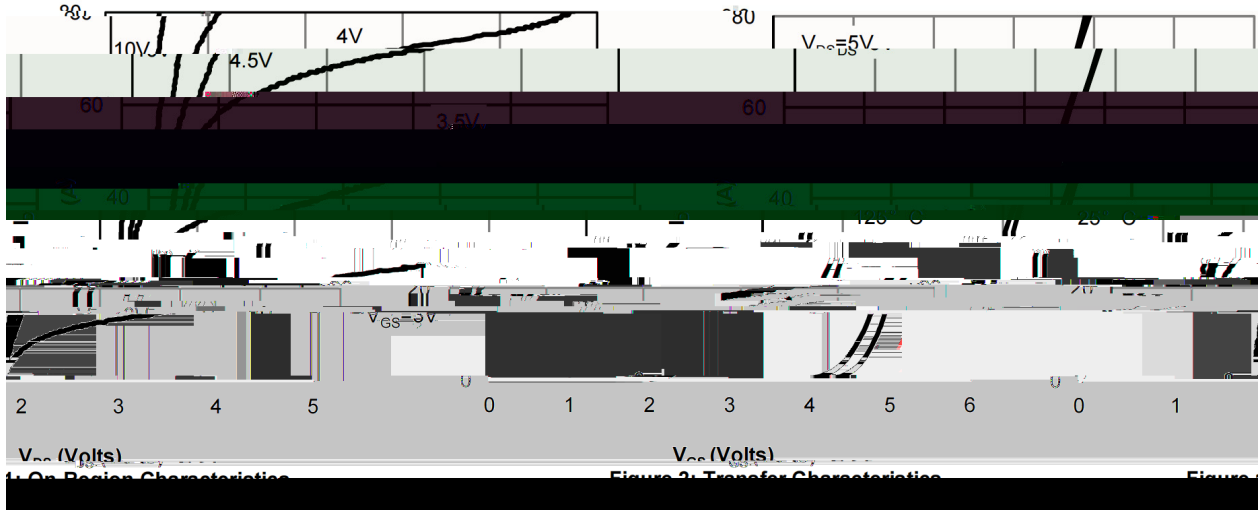
Rev.A Dec.-2023



DATA SHEET

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	30	V
Drain Current - Continuous	I_D	30	A
Drain Current – Pulsed	I_{DM}	140	A
Gate-Source Voltage	V_{GS}	± 20	V
Power Dissipation	$P_D(T_c=25^\circ\text{C})$	31	W
Single Pulse Avalanche Energy(L=0.1mH)	E_{AS}	50	mJ
Avalanche Current(L=0.1mH)	I_{AS}	22.5	A
Junction and Storage Temperature Range	T_j, T_{stg}	-55 to 150	
Thermal resistance, junction - ambient	R_{JA}	$t \leq 10s$	21
		Steady-State	53
			/W

/ Electrical Characteristic Curve



BRCS080N03ZCQ

Rev.A Dec.-2023



蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

BRCS080N03ZCQ

Rev.A Dec.-2023



蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

BRCS080N03ZCQ

Rev.A Dec.-2023



DATA SHEET



() / Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

- 1 150 ~ 200 60 ~ 120sec; 1.Preheating:150~200 , Time:60~120sec.
- 2 255±5 5±0.5sec; 2.Peak Temp.:255±5 , Duration:5±0.5sec.
- 3 2 ~ 10 /sec. 3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL